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NOTICE OF ALLOWANCE AND FEE(S) DUE

32615

7590

06/18/2009

OSHA LIANG L.L.P./SUN TWO HOUSTON CENTER 909 FANNIN, SUITE 3500 HOUSTON, TX 77010 EXAMINER

DEBNATH, SUMAN

ART UNIT PAPER NUMBER

2435

DATE MAILED: 06/18/2009

APPLIC	ATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/8	328,573	04/21/2004	Matthew A. Ahrens	03226.390001; P8399	5289

TITLE OF INVENTION: METHOD AND APPARATUS FOR SELF-VALIDATING CHECKSUMS IN A FILE SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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OSHA LIANG L.L.P./SUN TWO HOUSTON CENTER 909 FANNIN, SUITE 3500				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
HOUSTON, TX	. 77010						(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.	
10/828,573	04/21/2004	•	Matthew A. Ahrens		032	26.390001; P8399	5289	
TITLE OF INVENTION	: METHOD AND APPA	ARATUS FOR SELF-VA	LIDATING CHECKSUM	S IN A FILE SYS	TEM			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$0	\$0 \$1510		\$1510	09/18/2009	
EXAM	EXAMINER		CLASS-SUBCLASS					
DEBNATI	I, SUMAN	2435	713-193000					
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p			1		
Change of corresp	ondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
	ication (or "Fee Address		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
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PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the part of the part o	atent. If an assign	ee is io	dentified below, the de	ocument has been filed for	
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4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply a	ny prev	viously paid issue fee	shown above)	
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☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
			overpayment, to Depo	sit Account Numb	er	(enclose a	n extra copy of this form).	
5. Change in Entity Sta	tus (from status indicated IS SMALL ENTITY state	,	☐ b. Applicant is no long	per claiming SMA	LL.EN	TITY status. See 37 Cl	FR 1.27(g)(2)	
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This collection of inform	nation is required by 37 C	CFR 1.311. The informati	on is required to obtain or r	etain a benefit by t	he pub	lic which is to file (and	by the USPTO to process)	
an application. Confiden submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will varreden, should be sent to the NOT SEND FEES OR	1.14. This collection is est y depending upon the individual Chief Information Office COMPLETED FORMS TO	imated to take 12 idual case. Any co r, U.S. Patent and D THIS ADDRES:	minute: ommen Trader S. SEN	s to complete, including ts on the amount of times of the office, U.S. Department of the TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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10/828,573	04/21/2004	Matthew A. Ahrens	03226.390001; P8399	5289	
32615 7	32615 7590 06/18/2009		EXAMINER		
OSHA LIANG I	L.P./SUN	DEBNATH, SUMAN			
TWO HOUSTON			ART UNIT	PAPER NUMBER	
TWO HOUSTON 909 FANNIN, SU HOUSTON, TX 7	ITE 3500		ART UNIT 2435	PAPER NUMBER	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 590 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 590 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	10/828,573 Examiner	AHRENS ET AL. Art Unit
, , , , , , , , , , , , , , , , , , ,	Examiner	Artonic
	SUMAN DEBNATH	2435
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included attion will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the response filed on</u>	<i>March 09, 2009</i> .	
2. The allowed claim(s) is/are <u>1, 5, 7-11, 18, 20-27</u> .		
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f)	
a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have	been received in Application No	D
Copies of the certified copies of the priority do	cuments have been received in t	his national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (P	TO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	ne Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application
Notice of Neterences Great (110-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summ	
•	Paper No./Mail	Date
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔲 Examiner's Ame	enament/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ement of Reasons for Allowance
	9.	

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DETAILED ACTION

1. Claims 1, 5, 7-11, 18 and 20-27 are pending in this application.

Allowable Subject Matter

- 2. The following is an Examiner's statement of reasons for allowance: Claims 1, 5, 7-11, 18 and 20-27 are allowed.
- 3. The prior art of record doesn't teach or suggest or render obvious either alone/or in combination: a storage pool configured to store data, wherein data stored in the storage pool is organized as a hierarchical tree, and wherein the first and second data block are stored on a first level of the hierarchical tree; a first indirect block referencing the first data block and the second data block, wherein the first indirect block comprises a first data block checksum and a first data block location stored in a first block pointer, and a second data block checksum and a second data block location stored in a second block pointer; storing a second indirect block at a second indirect block location on a third level of the hierarchical tree in the storage pool, wherein a second indirect block, comprises a first indirect data block checksum and a first indirect block location; wherein each of the first data block location, the second data block location, the first indirect block location, and the second indirect block location are separate physical locations in the storage pool as in claims 1, 18 and 25-27.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUMAN DEBNATH whose telephone number is (571)270-1256. The examiner can normally be reached on 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on 571 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. D./ Examiner, Art Unit 2435 /Kimyen Vu/ Supervisory Patent Examiner, Art Unit 2435